

**Quick Guide to
Laboratory Services**

Disease/Agent Suspected or Test Required	Info Starts on Page	PR *	Specimen Needed	TDH Form Number	Container Special Shipping	Laboratory Section to Contact	Lab(s) Performing Test **
<i>Acanthamoeba</i> -- Contact the Parasitology Section at (615) 262-6369 for information.							
Adenovirus culture	V - 18		Throat washing or swab, nasopharyngeal washing or swab, conjunctival swab, feces, urine.	PH-1579	Container & transport varies with specimen (see page V - 22). Ship refrigerated or frozen.	Virology	N
<i>Aeromonas</i>	II - 31		Reference culture.	PH-1573	Submit in screw-capped tubes of trypticase soy agar or other appropriate media.	Bacteriology	N
AFB (Acid-fast bacilli) – See <i>Mycobacterium</i> .							
AIDS -- see Human immunodeficiency virus Type 1 (HIV-1).							
Anaerobic bacteria	II - 13		Reference culture.	PH-1573	Anaerobic transport system. DO NOT REFRIGERATE OR FREEZE.	Bacteriology	N
Anthrax -- See <i>Bacillus anthracis</i> .							
Aquatic biology -- See Environmental Laboratories, Section VI.							
<i>Bacillus anthracis</i>	II - 8		Lesion, hair products, blood, sputum. Reference culture.	PH-1573	Use a container appropriate for specimen. Use appropriate media for reference cultures.	Bacteriology	N
<i>Bacillus cereus</i>	II - 37		Reference culture. Foods and clinical specimens relating to foodborne outbreak.	PH-1573	Use trypticase soy agar slants or other appropriate media for reference cultures. Contact the Laboratory if a foodborne outbreak is suspected.	Bacteriology	N
Biotinidase Deficiency (BIO)	To add		Dried blood spot	PH-1582	Form PH=1582 contains filter paper for collecting blood spots. Dry blood specimen at room temperatures for at least three hours. Do not place in poly bag. Mail flat in paper envelope	Newborn Screening	N
<i>Blastomyces</i> culture	III - 6		Reference culture.	PH-1573	Submit in screw-capped tubes of Sabouraud's agar or other appropriate media.	Mycology	N
Blood parasites	III - 10	✓ 1	Thick & thin smear & EDTA blood	PH-1573	Place slide in plastic or cardboard slide-holder before packing for shipping.	Parasitology	N

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<i>Bordetella</i> species	II - 17		Reference culture.	PH-1573	Use appropriate media for reference cultures.	Bacteriology	N
<i>Bordetella pertussis</i> (Whooping cough)	II - 17		Nasopharyngeal swab. Reference culture.	PH-1573	<i>Regan-Lowe</i> transport media. Use <i>Regan-Lowe</i> transport media or other appropriate media for reference cultures.	Bacteriology	N
Botulism (<i>Clostridium botulinum</i>)	II - 22 II - 13	✓ 1	Serum, feces, food, wound culture. Reference culture.	PH-1573	See BOTULISM Section, Page II - 25.	Bacteriology	N
<i>Brucella</i> species	II - 7	✓ 1	Blood samples, infected tissues, abscess material, bone marrow, or liver biopsies. Reference culture.	PH-1573	Use a container appropriate for specimen type. Use Sabouraud's agar slant or other appropriate media for reference cultures.	Bacteriology	N
Brucellosis -- See <i>Brucella</i> species.							
<i>Burkholderia mallei</i> -- See melioidosis.							
<i>Burkholderia pseudomallei</i> -- See melioidosis.							
CAH -- See Congenital adrenal hyperplasia							
<i>Campylobacter jejuni</i>	II - 27 II - 31	✓ 4	Rectal swab.	PH-1573	Cary-Blair transport media. Ship refrigerated.	Bacteriology	J, K, N
<i>Campylobacter</i> species	II - 31	✓ 4	Reference culture.	PH-1573	Cary-Blair transport media or other appropriate transport.	Bacteriology	N
Candidiasis (<i>Candida albicans</i>)	III - 7		Reference culture.	PH-1573	Use appropriate media for reference cultures.	Mycology	N
Cat scratch fever (<i>Bartonella</i> and <i>Rochalimaea</i>) -- Contact Aerobic Bacteriology at (615) 262-6362 for information.							
Certification, Clinical (facility, personnel, and schools) -- Contact the TDH Office of Laboratory Licensing and CLIA Certification at (615) 741-7221.							
Certification, Safe Drinking Water (Microbiology, Chemistry, Radiochemistry) -- Contact Laboratory Quality Assurance at (615) 262-6354							
Chancroid -- See <i>Haemophilus ducreyi</i> .							
Chemistry, Environmental (Inorganics, Organics, Radiochemistry) -- See ENVIRONMENTAL LABORATORIES, Section VI.							
Chickenpox -- See Varicella-zoster virus (VZV).							
<i>Chlamydia trachomatis</i> antigen detection by Gen-Probe	II - 41		Cervical or urethral swab.	PH-3179	Gen-Probe transport tube.	Bacteriology	J, K, N

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Cholera -- See <i>Vibrio cholera</i> .							
CLIA (Clinical Laboratory Improvement Amendment) information -- Contact the TDH Office of Laboratory Licensing and CLIA Certification at (615) 741-7221.							
<i>Clostridium botulinum</i> , Food -- See Botulism, <i>Clostridium botulinum</i> .							
<i>Clostridium perfringens</i> (gas gangrene)	II - 13 II - 37		Reference culture. Clinical specimens if foodborne outbreak.	PH-1573	Anaerobic transport. DO NOT REFRIGERATE OR FREEZE. Contact the State Laboratory if a foodborne outbreak is suspected.	Bacteriology	N J, K, N (food)
CMV -- See Cytomegalovirus.							
<i>Coccidioides</i>	III - 7		Reference culture.	PH-1573	Submit in screw-capped tubes of Sabouraud's agar or other appropriate media.	Mycology	N
Congenital adrenal hyperplasia (CAH)	IV - 1		Dried blood spot	PH-1582	Form PH-1582 contains filter paper for collecting blood spots. Dry blood specimen at room temperature for at least three hours. Do not place in poly bag. Mail flat in paper envelope.	Newborn Screening	N
Continuing education opportunities -- See Section VIII - 3.							
<i>Corynebacterium diphtheriae</i>	II - 7	✓ 1	Throat swab or skin lesion swab. Reference culture.	PH-1573	Pai or Loeffler's media or sterile container. Use Pai or Loeffler's media or other appropriate media.	Bacteriology	N
Coxsackie virus culture	V - 19		Throat swab, feces, CSF, pericardial fluid.	PH-1579	Container & transport varies with specimen (see page IV -22). Ship refrigerated or frozen.	Virology	N
<i>Coxiella burnetii</i> -- See Q Fever.							
<i>Cryptosporidium</i>	III - 11		Stool specimen.	PH-1573	Intestinal parasite (IP) bottle with 5 to 10 % formalin.	Parasitology	N
<i>Cryptosporidium</i> , water – Contact the Environmental Microbiology Laboratory at (615) 262-6371.							
Cytomegalovirus (CMV) culture	V - 20		Urine, throat swab, buffy coat, lung tissue, lung aspirate.	PH-1579	Container & transport varies with specimen (see IV -22). Ship on refrigerant. DO NOT FREEZE.	Virology	N

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Diphtheria -- See <i>Corynebacterium diphtheriae</i> .							
Eastern equine encephalitis virus serology	V - 2		Acute and convalescent (14 days) sera.	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	K, N
Echovirus culture	V - 18		Throat swab, feces, CSF, pericardial fluid	PH-1579	Container & transport varies with specimen. See page V - 22.) Ship refrigerated or frozen.		N
Ehrlichiosis serology	To add		Acute & convalescent (28 days) sera.	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	N
<i>Entamoeba histolytica</i> (amebiasis)	III - 9		Stool specimen.	PH-1573	Intestinal parasite (IP) bottle with 5 to 10 % formalin.	Parasitology	N
Enteric bacteriology -- See specific organism or ENTERIC BACTERIOLOGY, Section II-25.							
Enterovirus culture	V - 18		Throat swab, feces, CSF, pericardial fluid, vesicle scraping.	PH-1579	Container & transport varies with specimen (see page V - 22). Ship refrigerated or frozen.	Virology	N
Environmental microbiology testing	II - 60		Water sample.	PH-1575	Total coliform -- 125 ml or water sample bottle, filled to the shoulder. Fecal coliform -- 125 or 250 ml water sample bottle, filled to the shoulder.	Environmental Microbiology	K, J, N
<i>Escherichia coli</i>	II - 30		Reference culture.	PH-1573	Use appropriate media.	Bacteriology	N
<i>Escherichia coli</i> 0157:H7 typing	II - 30	✓ 1	Reference culture.	PH-1573	Use appropriate media.	Bacteriology	N
<i>Escherichia coli</i> 0157 isolation	II - 31		Fecal or rectal swab.	PH-1573	Cary-Blair transport. Ship refrigerated.	Bacteriology	J, K, N
Fecal coliform	II - 60		Water sample.	PH -1575	125 or 250-ml water sample bottle, filled to the shoulder.	Environmental Microbiology	J, K, N
Fluorescent treponemal antibody (FTS-ABS) -- See Syphilis.							

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Foodborne illness outbreak (<i>Bacillus cereus</i> , <i>Campylobacter</i> , <i>Clostridium botulinum</i> , <i>Clostridium perfringens</i> , <i>E. coli</i> 0157, <i>Salmonella</i> , <i>Shigella</i> , <i>Staphylococcus aureus</i> , others)	II - 37		Contact Laboratory Services if a foodborne outbreak is suspected. See page II - 41 for additional information.	PH-1573	Contact Laboratory Services.	Environmental Microbiology	J, K, N
<i>Francisella tularensis</i>	II - 8	✓ 1	Material from lesions, lymph nodes, sputum, gastric aspirates, nasopharyngeal washings, blood cultures. Reference culture.	PH-1573	Sterile containers, no transport medium. Ship frozen on dry ice. Appropriate media.	Bacteriology	N
FTA-ABS -- See Syphilis.							
Fungus culture	III - 6		Material from the site of infection. Reference culture.	PH-1573	Submit in screw-capped tubes of Sabouraud's agar or other appropriate media or submit clinical specimen.	Mycology	N
Galactosemia	IV - 1		Dried blood spot.	PH-1582	Form PH-1582 contains filter paper for collecting blood spots. Dry blood specimen at room temperature for at least three hours. Do not place in polybag. Mail flat in paper envelope.	Newborn Screening	N
<i>Giardia</i>	III - 9		Stool specimen.	PH-1573	Intestinal parasite (IP) bottle with 5 to 10% formalin.	Parasitology	N
<i>Giardia</i> , water -- Contact Environmental Microbiology at (615) 262-6371.							
Gonorrhea antigen detection by Gen-Probe	II - 41		Cervical or urethral swab.	PH-3179	Gen-Probe transport tube.	Bacteriology	J, K, N

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Gonorrhea culture	II - 45		Cervical, urethral, rectal, throat, eye swab.	PH-1583	Martin-Lewis media (GonoPac plates). Ship in CO ₂ atmosphere.	Bacteriology	J, K, N
<i>Haemophilus ducreyi</i>	II - 9		Lesion or inguinal bubo.	PH-1573	Transport as subsurface stabs in chocolate agar.	Bacteriology	N
<i>Haemophilus influenzae</i>	II - 9	✓ 3	Reference culture.	PH-1573	Appropriate media.	Bacteriology	N
Hantavirus serology -- Contact the Serology Section at (615) 262-6374.							
Hemoglobinopathies (Sickle cell and other diseases)	IV - 1		Dried blood spot specimen.	PH-1582	Form PH-1582 contains filter paper for collecting blood spots. Dry blood specimen at room temperature for at least three hours. Do not place in poly bag. Mail flat in paper envelope.	Newborn Screening	N
Herpes simplex virus culture	V-18		Vesicle scraping, brain biopsy, conjunctival swab, urogenital swab	PH-1579	Container and transport varies with specimen (see V-22.) Ship refrigerated or frozen.	Virology	N
<i>Histoplasma</i> culture	III - 6		Reference culture.	PH-1573	Submit in screw-capped tubes of Sabouraud's agar or other appropriate media.	Mycology	N
Human Immunodeficiency Virus Type 1 (HIV-1) serology	V - 1		Whole, clotted blood or serum.	PH-3173	Red-stoppered vacuum tube or sterile, plastic screw-capped vial. (The Jackson and Knoxville Labs forward specimens to Nashville for the Western blot test.)	Serology	EIA -- J,K, N Western blot -- N
Hypothyroidism -- See T4 and TSH.							
Influenza virus culture	V - 18		Throat washing or swab, nasopharyngeal washing or swab.	PH-1579	Container & transport varies with specimen (see page V -22). Ship refrigerated or frozen.	Virology	N

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Inorganic chemistry – See ENVIRONMENTAL LABORATORIES, Section V.							
Intestinal parasites	III - 9		Stool specimen.	PH-1573	Intestinal parasite (IP) bottle with 5 to 10 % formalin.	Parasitology	N
Laboratory regulations, CLIA – Contact the TDH Office of Laboratory Licensing and CLIA Certification at (615) 741-7221.							
Laboratory regulations, (Tennessee) clinical personnel, facilities, laboratory schools -- Contact the TDH Office of Laboratory Licensing and CLIA Certification at (615) 741-7221.							
LaCrosse encephalitis virus (California Group) serology	V - 2		Acute and convalescent (14 days) sera.	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	K, N
<i>Legionella pneumonia</i> , culture	II - 52	✓ 1	Respiratory tract secretions, tissues, pleural fluid, transtracheal aspirates, bronchial washings and biopsies. Reference culture.	PH-1573	Sterile, screw-capped container. Use appropriate media for reference culture.	Bacteriology	N
<i>Legionella pneumoniae</i> Type 1 serology	V - 2		Acute and convalescent (28 days) sera.	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	N
<i>Legionella</i> , environmental sample --Contact the Bacteriology Section at (615) 262-6362.						Bacteriology	N
Legionnaires diseases -- see <i>Legionella</i> .							
<i>Leptospira</i> species	II - 9		Blood, CSF, urine.	PH-1573	Obtain media for culture and/or transport from CDC. Telephone (404) 639-3905 to request.	Bacteriology	N

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<i>Listeria monocytogenes</i>	II - 9 II - 37	✓ 1	Reference culture. Food.	PH-1573	Use appropriate media for reference culture. Contact the laboratory if a foodborne outbreak is suspected.	Bacteriology	J, K, N
Malaria slide (<i>Plasmodium</i> species)	III - 10	✓ 1	Thick & thin smears & EDTA blood	PH-1573	Place slide in plastic or cardboard slide holder before packing for shipping.	Parasitology	N
Measles virus culture (Rubeola)	V - 18		Throat washing or swab, nasopharyngeal washing or swab, conjunctival secretions.	PH-1579	Sterile container. Ship refrigerated or frozen.	Virology	N
Measles virus serology (Rubeola)	V - 18	5	Immunity screening -- whole, clotted blood or serum.	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	N
			Diagnostic testing -- acute and convalescent (14 days) sera.				
Melioidosis (<i>Burkholderia</i>)	II - 8		Reference culture.	PH-1573	Use appropriate media for reference culture.	Bacteriology	N
Mumps virus culture	V - 18		Throat washing or swab, urine, CSF.	PH-1579	Container & transport varies with specimen (see page V - 22). Ship refrigerated or frozen.	Virology	N
Mumps virus serology	V - 18	5	Immunity screening -- whole, clotted blood or serum.	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	N
			Diagnostic testing -- acute and convalescent (14 days) sera.				
<i>Mycobacterium</i> cultures for identification	III - 1	✓ 1	Reference culture.	PH-1577	Submit in screw-capped tubes of Lowenstein-Jensen media or other appropriate media.	Mycobacteriology	N

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<i>Mycobacterium</i> isolation	III - 1		Sputum, bronchial washings, gastric lavage, tissue, urine, feces, blood. (Feces is accepted only from immunocompromised patients.)	PH-1577	50 ml conical sputum tube.	Mycobacteriology	N
<i>Mycobacterium tuberculosis</i> -- See <i>Mycobacterium</i> .							
<i>Mycoplasma pneumoniae</i> serology	V - 2		Acute and convalescent (14 days) sera.	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	N
<i>Neisseria gonorrhoeae</i> -- See Gonorrhea.							
<i>Neisseria meningitidis</i> grouping	II - 9	✓ 3	Reference culture.	PH-1573	Submit on chocolate agar slant or other appropriate media.	Bacteriology	N
Newborn Screening -- See biotinidase deficiency (BIO), congenital adrenal hyperplasia (CAH), galactosemia, hemoglobinopathies, phenylketonuria, and thyroid stimulating hormone (TSH).							
Notifiable diseases -- See page II - 1 to II - 5.							
Notifiable diseases requiring referral of culture to the TDH Laboratory -- See page II - 1.							
Ordering supplies and forms -- See page I - 9							
Organic chemistry -- See ENVIRONMENTAL LABORATORIES, Section VI.							
Ova and parasites -- See Parasites, Intestinal, page III - 11.							
Parainfluenza virus culture	V - 18		Throat washing or swab, nasopharyngeal washing or swab.	PH-1579	Container & transport varies with specimen (see page V -22). Ship refrigerated or frozen.	Virology	N
Parasites, intestinal	III - 9		Stool specimen.	PH-1573	Intestinal parasite (IP) bottle with 5 to 10% formalin.	Parasitology	N
Pertussis -- See <i>Bordetella pertussis</i> .							

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Phenylketonuria PKU	IV - 1		Dried blood spot specimen.	PH-1582	Form PH-1582 contains filter paper for collecting blood spots. Dry blood specimen at room temperature for at least three hours. Do not place in poly bag. Mail flat in paper envelope.	Newborn Screening	N
Pinworm	III - 12		Perianal slide (see page III - 15).	PH-1573	Place slide in plastic or cardboard slide holder before packing for shipping.	Parasitology	N
PKU -- See Phenylketonuria.							
Plague -- See <i>Yersinia pestis</i> .							
<i>Plasmodium</i> species -- See Malaria.							
<i>Plesiomonas</i> species	II - 31		Reference culture.	PH-1573	Submit in screw-capped tubes of trypticase soy agar or other appropriate media.	Bacteriology	N
Poliovirus culture	V - 18		Throat washing or swab, feces, nasopharyngeal washing or swab, rectal swab.	PH-1579	Container & transport varies with specimen (see page V - 22). Ship refrigerated or frozen.	Virology	N
Q Fever (<i>Coxiella burnetii</i>) serology	V - 2		Acute and convalescent (28 days) sera.	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	N
Rabbit fever -- See <i>Francisella tularensis</i> .							
Rabies	V - 14		See Rabies Section for specimen needed.	PH-1584	Pack in a leak-proof container and place in a cardboard box. Ship refrigerated. DO NOT FREEZE.	Virology	J, K, N
Radiation Surveillance -- See ENVIRONMENTAL LABORATORIES, Section VI.							
Radiochemistry -- See ENVIRONMENTAL LABORATORIES, Section VI.							
Rat-bite fever (<i>Spirillum minor</i> , <i>Streptobacillus moniliformis</i>) -- Contact the Aerobic Bacteriology Section (615) 262-6359 for information.							
Rapid plasma reagin (RPR) -- See Syphilis serology.							

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Respiratory syncytial virus (RSV) culture	V - 18		Nasopharyngeal washing or swab.	PH-1579	Container & transport varies with specimen (see page V - 22). Ship refrigerated. DO NOT FREEZE.	Virology	N
Rocky Mountain spotted fever serology (<i>Rickettsia rickettsii</i>)	V - 2		Acute & convalescent (28 days) sera.	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	N
RPR (Rapid Plasma Reagin) -- See syphilis serology.							
Rubella virus culture	V - 18		Nasopharyngeal washing or swab, CSF, urine.	PH-1579	Container & transport varies with specimen (see page V - 22). Ship refrigerated or frozen.	Virology	N
Rubella virus serology	V - 2		Immunity screening -- whole. clotted blood or serum. Diagnostic testing -- acute and convalescent (14 days) sera.	PH-1917 PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	N
Rubeola -- See Measles							
Safe Drinking Water Certification (Microbiology, Chemistry, Radiochemistry) -- Contact Laboratory Quality Assurance at (615) 262-6354.							
<i>Salmonella</i> isolation	II - 31		Fecal or rectal swab.	PH-1573	Cary-Blair transport. Ship refrigerated.	Bacteriology	J, K, N
Food	II - 37						
<i>Salmonella</i> serotyping	II - 31	✓ 1	Reference culture.	PH-1573	Submit in screw-capped tubes of trypticase soy agar or other appropriate media.	Bacteriology	N
SARS (Severe acute respiratory syndrome) Contact CEDS 615-741-7247							
<i>Shigella</i> isolation	II - 31		Fecal or rectal swab.	PH-1573	Cary-Blair transport. Ship refrigerated.	Bacteriology	N
<i>Shigella</i> typing	II - 31	✓ 1	Reference culture.	PH-1573	Submit in screw-capped tubes of trypticase soy agar or other appropriate media.	Bacteriology	N

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Shingles -- See Varicella-zoster.							
Sickle cell anemia -- See Hemoglobinopathies.							
Sputum for Mycobacteria -- See <i>Mycobacterium</i> isolation.							
St. Louis encephalitis virus serology	V - 18		Acute and convalescent (14 days) sera.	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	K, N
<i>Staphylococcus aureus</i>	II - 9		Isolates from documented outbreaks.	PH-1573	Submit isolates on trypticase soy agar slants or other appropriate media.	Bacteriology	N
Food	II - 37		Contact Laboratory Services if an outbreak is suspected.				
<i>Streptobacillus moniliformis</i> -- See Rat-bite Fever.							
<i>Streptococcus</i> species	II - 9	* ✓ 3	Reference culture.	PH-1573	Submit in screw-capped tubes of trypticase soy agar or other appropriate media.	Bacteriology	N
<i>Streptococcus</i> Group A	II - 57	✓ 3	Throat, nose, skin, or wound swab.	PH-1587	Trypticase soy agar slant (TSA).	Bacteriology	J, K, N
<i>Streptococcus pneumoniae</i>	II - 9	✓ 3	Reference culture.	PH-1573	Submit in screw-capped tubes growing on appropriate media.	Bacteriology	N
Syphilis serology -- Blood	V - 10		Whole clotted blood or serum.	PH-1578	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	J, K, N
Syphilis serology -- CSF	V - 10		CSF	PH-1578	Sterile container.	Serology	N
TB -- see <i>Mycobacterium</i>							

* ✓ 3 *Streptococcus* Group A, *Streptococcus* Group B, and *Streptococcus pneumoniae*

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Thyroid stimulating hormone (TSH)	IV - 1		specimen.	PH-1582	Form PH-1582 contains filter paper for collecting blood spots. Dry blood specimen at room temperature for at least three hours. Do not place in poly bag. Mail flat in paper envelope.	Newborn Screening	N
Total coliform	II - 60		Water sample.	PH-1575	125 ml water sample bottle, filled to the shoulder.		
TP-PA (<i>Treponema pallidum</i> Particle Agglutination) – See Syphilis Serology							
Training materials and courses-- See Page VIII - 3.							
TSH -- See Thyroid stimulating hormone, Section VI.							
Tuberculosis and other Mycobacterial disease -- see <i>Mycobacterium</i> , Section III.							
Tularemia -- See <i>Francisella tularensis</i> , Section II.							
Typhoid Fever -- See <i>Salmonella</i> , Section II.							
Typhus (<i>Rickettsia typhi</i>) serology	V - 2		Acute and convalescent (28 days) sera.	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	N
Undulant fever -- See <i>Brucella</i> species. See Section II.							
Vaccinia (Note: The vaccine used for protection against Smallpox is a Vaccinia vaccine.) Contact CEDS 615-741-7247							
Varicella-zoster virus (Chickenpox) culture	V - 18		Vesicle scraping, throat washing.	PH-1579	Container & transport varies with specimen (see page V - 22). Ship refrigerated or frozen.	Virology	N
VDRL serology -- See Syphilis, CSF.							
<i>Vibrio cholera</i>	II 31	✓ 1	Fecal or rectal swab.	PH-1573	Contact the Bacteriology Section.	Bacteriology	N
<i>Vibrio</i> species	II - 31	✓ 1	Reference culture.	PH-1573	Submit in screw-capped tubes of trypticase soy agar or other appropriate media.	Bacteriology	N
Water bacteriology -- See WATER MICROBIOLOGY, Section II.							
Water chemistry -- See ENVIRONMENTAL LABORATORIES, Section VI.							
Western Equine encephalitis virus serology	V - 2		Acute and convalescent (14 days) sera	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	K, N
West Nile Virus Encephalitis - Human	V - 3		Acute and convalescent (14 days) sera, CSF. Contact regional health officer for approval to send	PH-1589	Red-stoppered vacuum tube or sterile, plastic screw-capped vial.	Serology	N
West Nile Virus – Birds & Mosquitoes			Refer to Annual Guidelines provided by CEDS 615-741-7247		?	?	N
Whooping cough -- See <i>Bordetella pertussis</i> , Section II.							

Disease/Agent Suspected or Test Required	Info Starts on Page	PR*	Specimen Needed	TDH Form Number	Container Special Shipping	Laboratory Section to Contact	Lab(s) Performing Test **
Workshops -- See Page VIII - 3.							
<i>Yersinia enterocolitica</i>	II - 31		Isolation --fecal or rectal swab. Reference culture.	PH-1573	Cary-Blair transport. Ship refrigerated. Submit reference culture in screw-capped tubes of trypticase soy agar or other appropriate media.	Bacteriology	J, K, N N
<i>Yersinia pestis</i>	II - 31	✓ 1	Isolation -- Blood, aspirated fluids from lymph nodes or bubo. Reference culture.	PH-1573	Blood culture bottles for blood and aspirated fluids; sterile container for other specimens. Submit reference culture in screw-capped tubes of trypticase soy agar or other appropriate media.	Bacteriology	N
<i>Yersinia pseudotuberculosis</i>	II - 31		Reference culture.	PH-1573	Submit in screw-capped tubes of trypticase soy agar or other appropriate media.	Bacteriology	N